

The Dock & Harbour Authority

No. 354. Vol. XXX

APRIL, 1950

Monthly 1s. 6d.

A GREAT NAME IN DREDGING



The hazards and cost of transporting dredging equipment over a long distance have been solved by the 'Dee' prefabricated dredger. All types of dredging and land reclamation can now be undertaken in any part of the World at low cost.

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(E. D. KALIS—MANAGING DIRECTOR)

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The Cranes incorporate an entirely new principle of screw operated level luffing motion resulting in speedier movements, lower running and maintenance costs and simplified control.

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The new type Wellman Level Luffing Crane can be supplied in all capacities.

We have specialised for more than 25 years in electric crane construction and have supplied jib cranes up to 120 tons capacity for some of the world's greatest engineering projects.

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The success that Petters have achieved in industry is the result of their engineers being in constant touch with contractors, civil engineers, manufacturers and operators, studying their problems and gaining experience of working conditions.

The designers can thus satisfy the demands of the user and keep abreast of developments.

Petter engines are the embodiment of that combined experience which alone can give industry the right engine for the job.

PETTERS *Petter* LIMITED

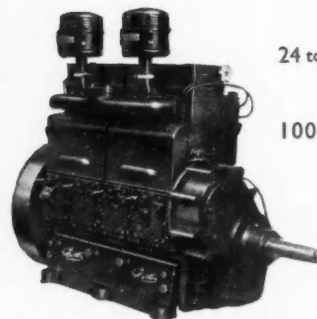
Small Engine Division, Causeway Works, Staines, Middx. Telephone Staines 1122

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PETTER B RANGE B2 12-18 h.p. Publication No. R2 2001/1
B3 18-27 h.p. Publication No. R2 2018
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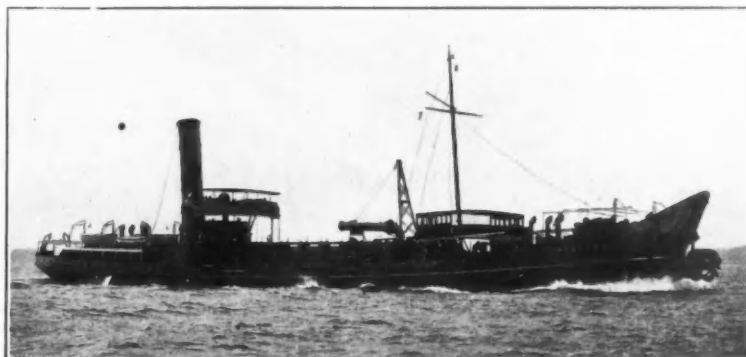
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Twin Screw Suction Cutter Hopper Dredger "Oceanus."

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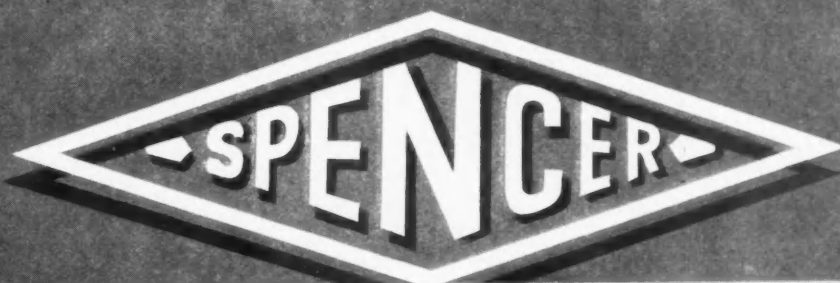
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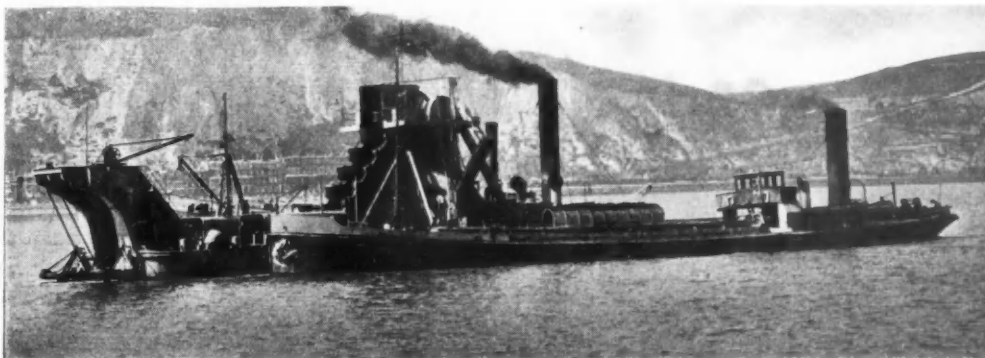
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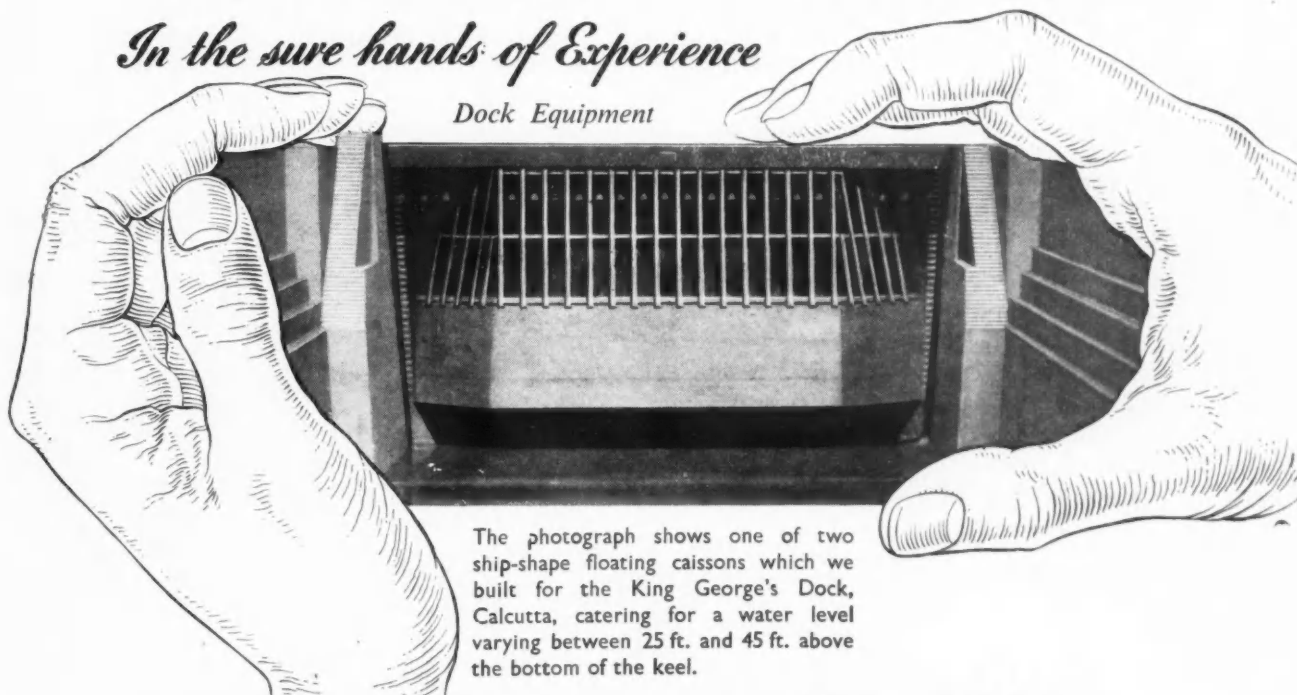
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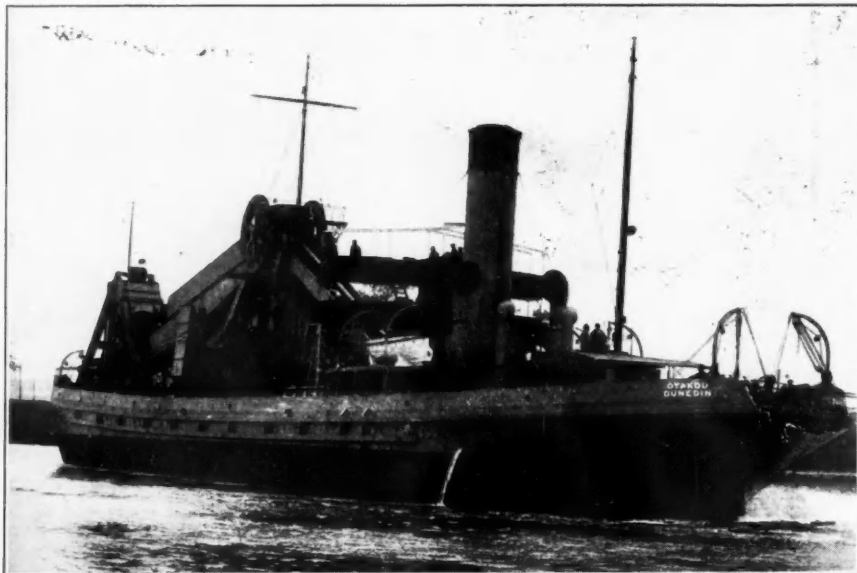
The photograph shows one of two ship-shape floating caissons which we built for the King George's Dock, Calcutta, catering for a water level varying between 25 ft. and 45 ft. above the bottom of the keel.

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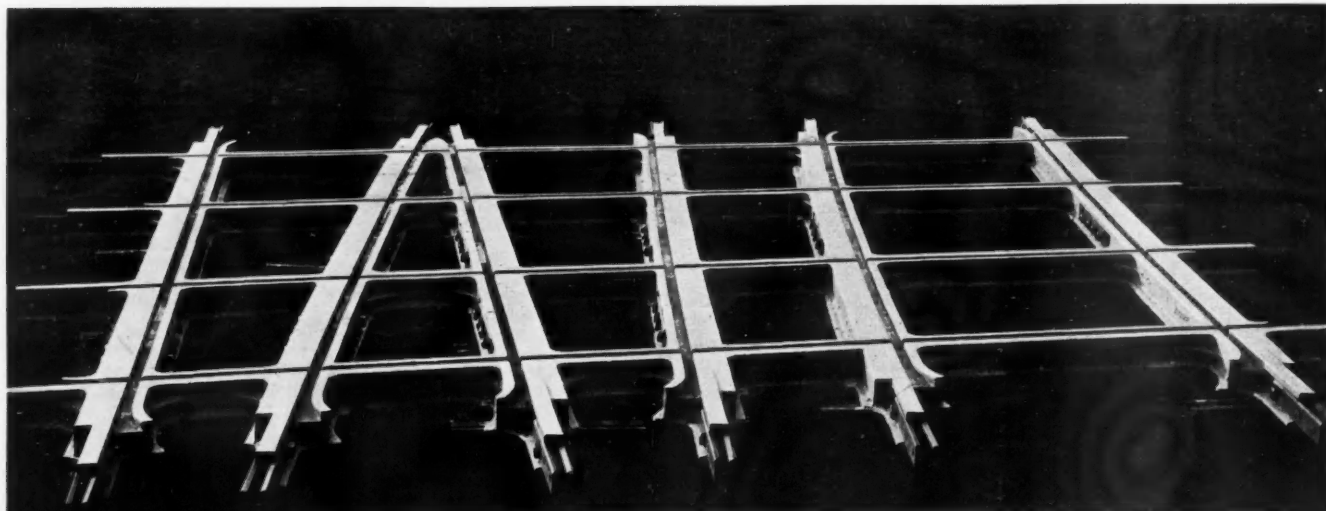
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TRACKWORK

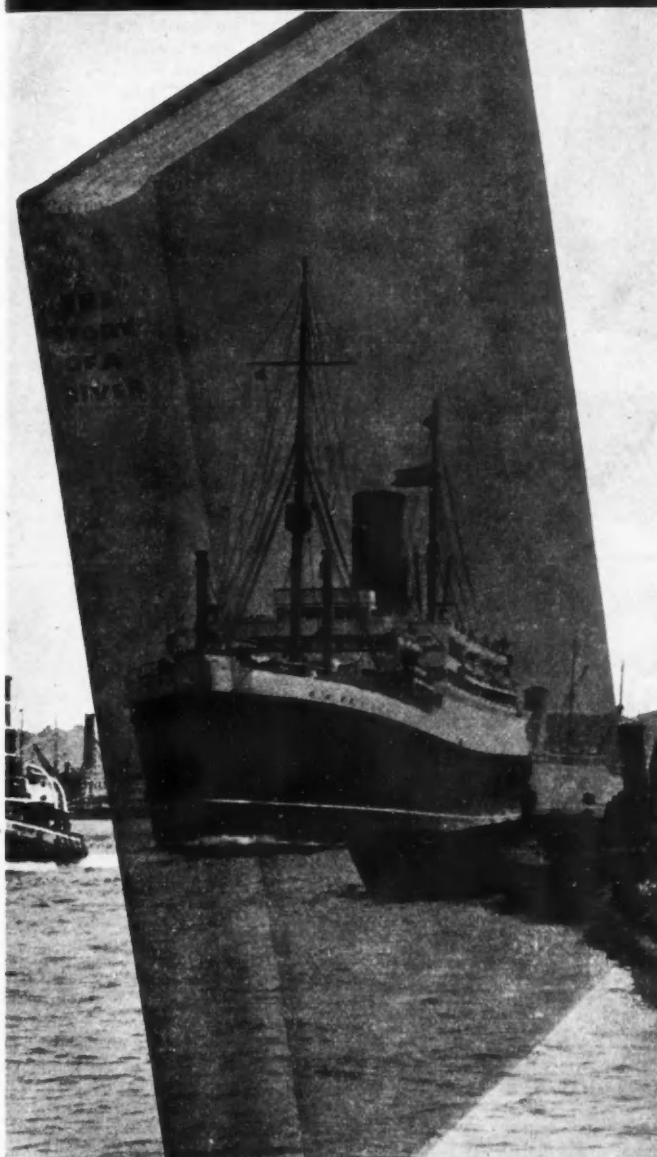
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and indeed of most of the world's main waterways, would be incomplete without some reference to the "Priestman System" of Grab Dredging . . . recognised as standard practice for over 70 years.

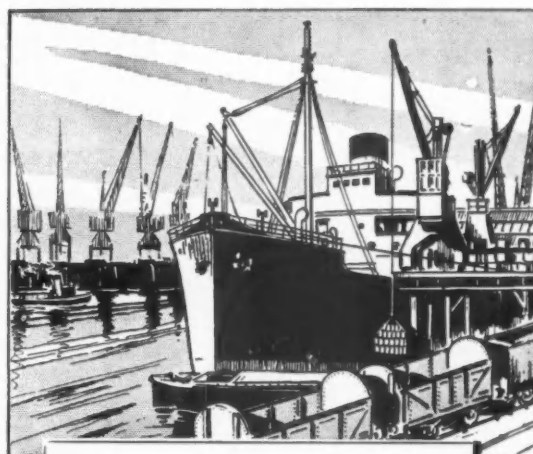


Full technical details are available on request

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**This highly efficient bituminous paint
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THE best way to keep metal from rusting is to give it a covering of Presomet. This flexible bituminous black paint can be applied by brush, spray, or by dipping, and flows exceptionally smoothly; its great covering capacity makes it very economical. It dries quickly to form a glossy, durable surface that keeps off any weather and resists wear and rough treatment.

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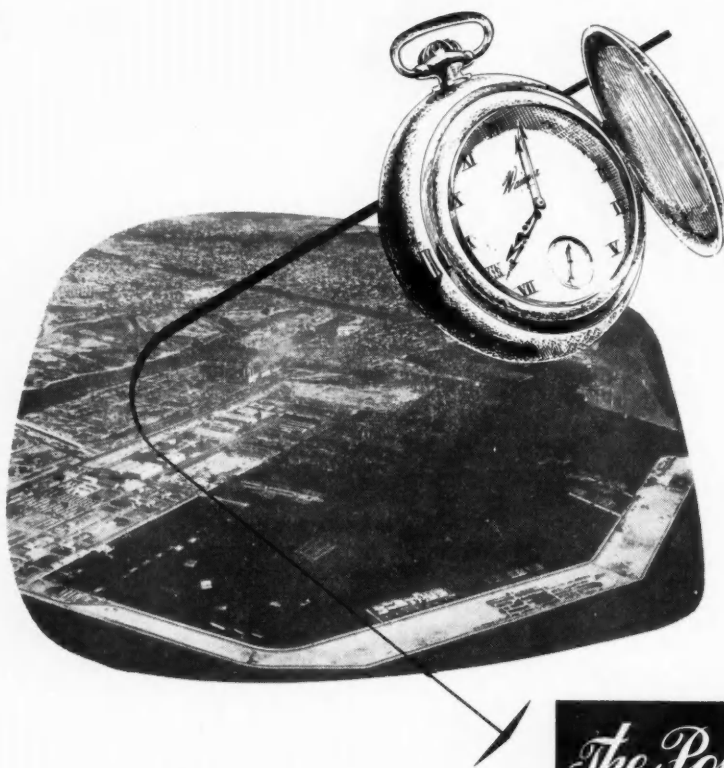
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Presomet is a product of British Coal. Further details, and advice on any technical problem, will gladly be given on application to the National Coal Board, By-Products, N.P. Bank Buildings, Docks, Cardiff.



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Premier heavy-lift port of the Great Lakes
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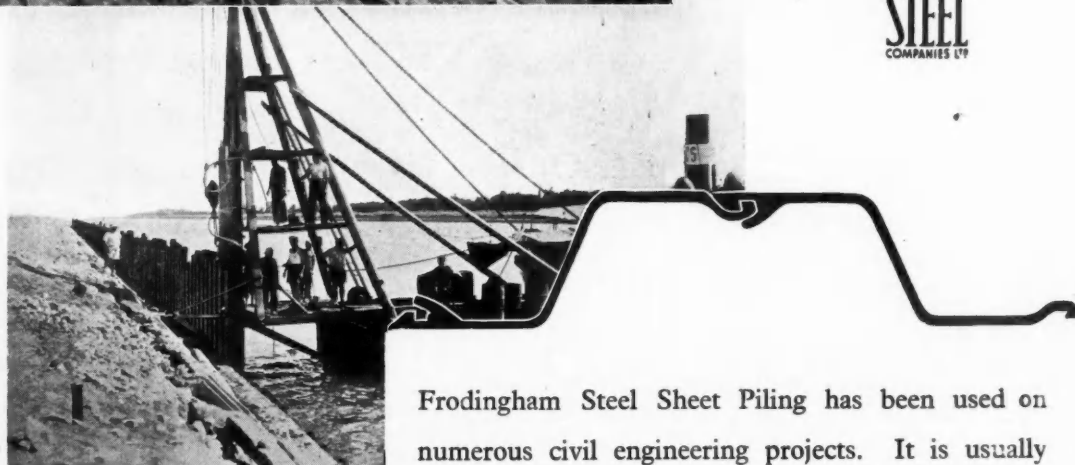
FRODINGHAM STEEL SHEET PILING

for SUEZ CANAL



Illustrations show part of a large order of Frodingham No. 1A Steel Sheet Piling being driven on the banks of the Suez Canal. Photographs by courtesy of Compagnie Universelle du Canal Maritime de Suez.

THE UNITED
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Frodingham Steel Sheet Piling has been used on numerous civil engineering projects. It is usually driven in assembled pairs thus saving labour costs on site. Full details of Frodingham Piling will be sent on request.

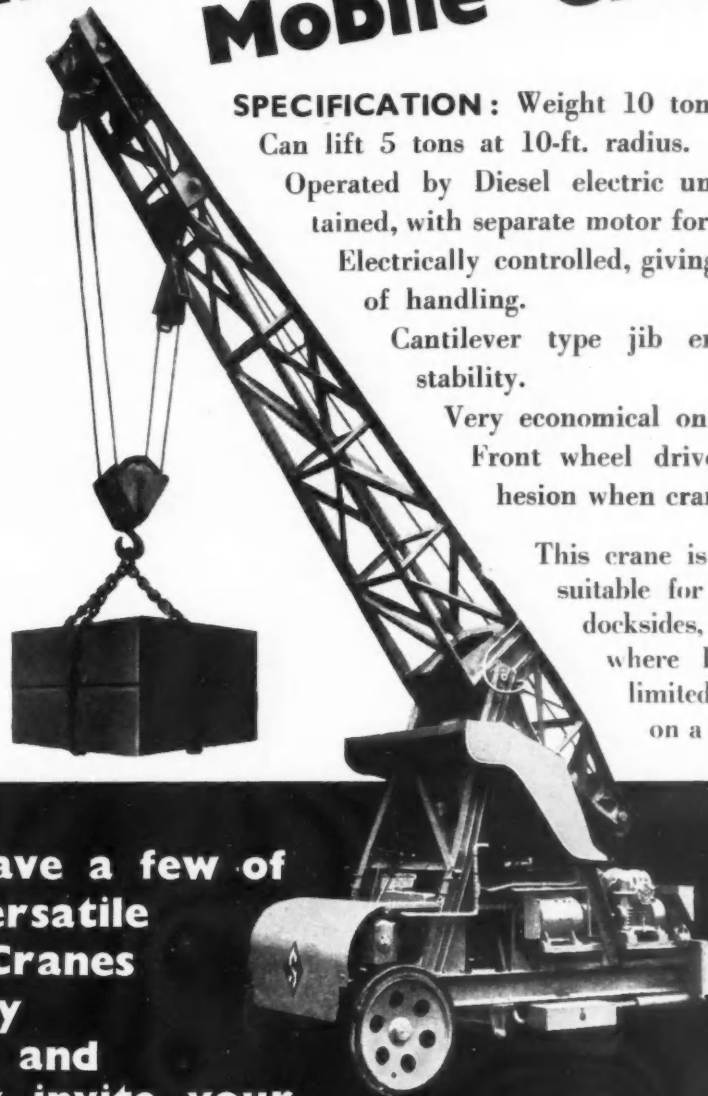
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The Smith Diesel-Electric Mobile Crane



SPECIFICATION : Weight 10 tons.

Can lift 5 tons at 10-ft. radius.

Operated by Diesel electric unit, self-contained, with separate motor for each drive.

Electrically controlled, giving great ease of handling.

Cantilever type jib ensures load stability.

Very economical on fuel.

Front wheel drive gives adhesion when crane is loaded.

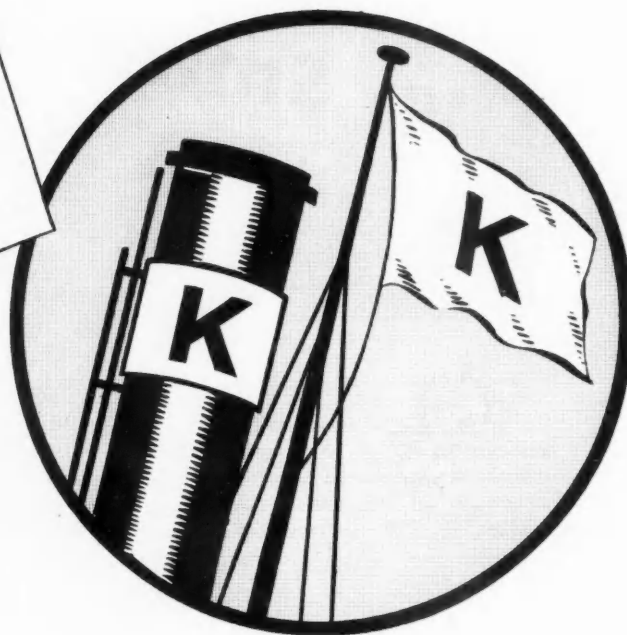
This crane is particularly suitable for warehouses, docksides, or any place where headroom is limited : it operates on a hard surface.

*** We have a few of these versatile Mobile Cranes for early delivery and strongly invite your immediate enquiries.**

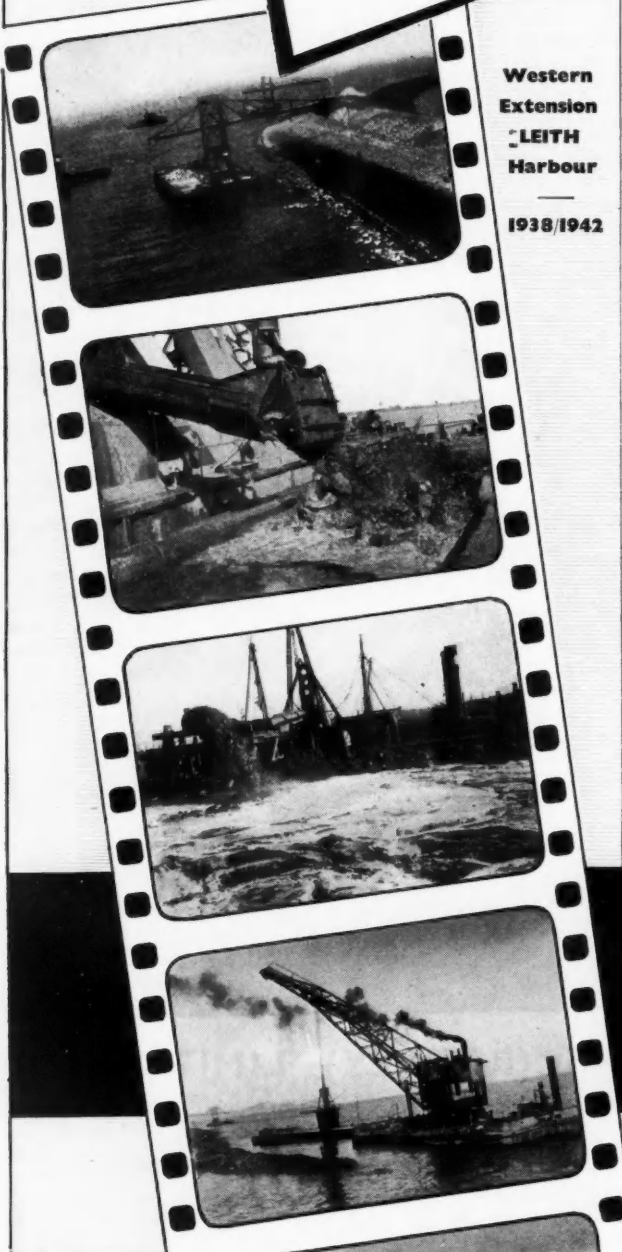
THOMAS SMITH AND SONS (RODLEY) LIMITED
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*Known over
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The K.L. Kalis Sons & Co. Ltd. flag is known all over the World and recognised as an emblem of skill where ever Harbour works reclamation or dredging is in operation. A large and comprehensive fleet of modern dredgers, tugs and other equipment is available to undertake contracts for all types of Harbour works.

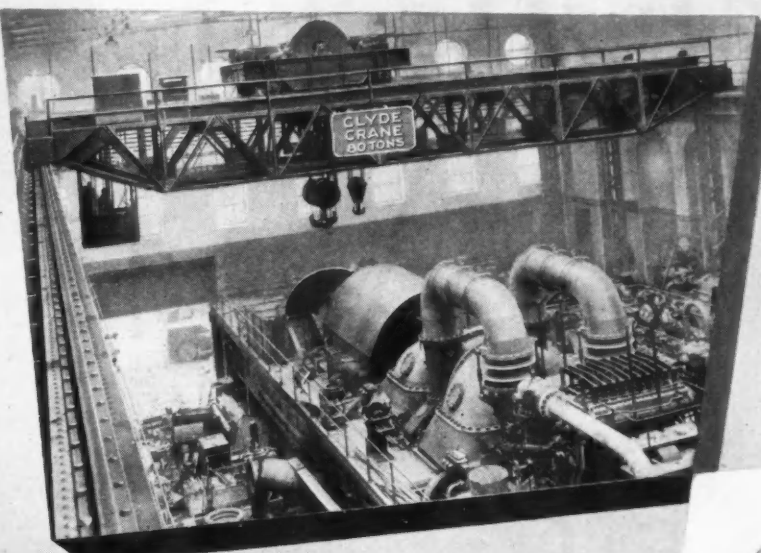
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Clyde Electric Overhead Crane, 80 tons at Ocker Hill Power Station B.E.A.



Clyde Goliath Crane at British Railways' goods-yard, Birkenhead.



Clyde Level Luffing Grabbing Cranes, 7½ tons capacity at Purfleet Wharf of Wm. Cory & Sons Ltd.



Clyde Coal Transporters, supplied to Egyptian State Railways, Alexandria.

Our products cover almost the entire field of heavy lifting and mechanical handling. Based on the most modern designs Clyde Cranes make use of the finest materials and workmanship.

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The plant illustrated is in Rio de Janeiro: it discharges grain at 150 tons an hour and feeds band conveyors running in a subway under the quay.

700 feet away the grain is received in a silo of 8,000 tons capacity which was also equipped by us.

Grain is but one of the many widely differing materials for which we design and build pneumatic and mechanical handling plant. The range of materials is constantly being increased and we are now building a larger research laboratory that will allow us to extend the range further and more quickly.

If you have a handling problem why not write to-day and have one of our engineers visit you for consultation.

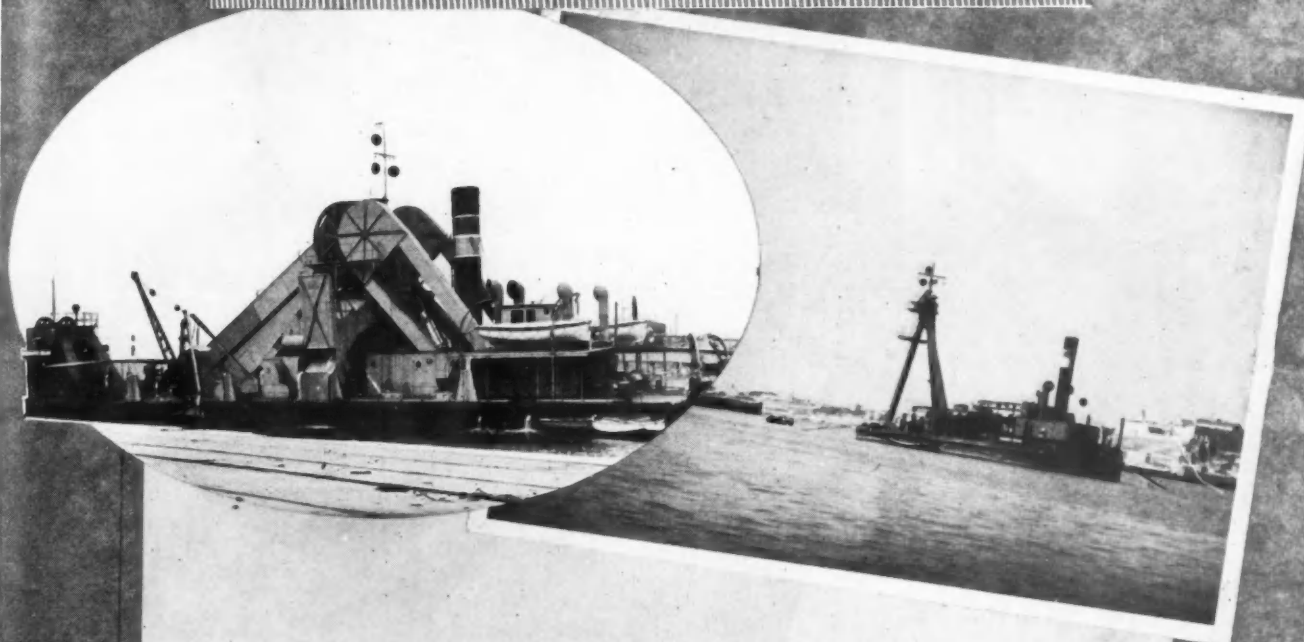
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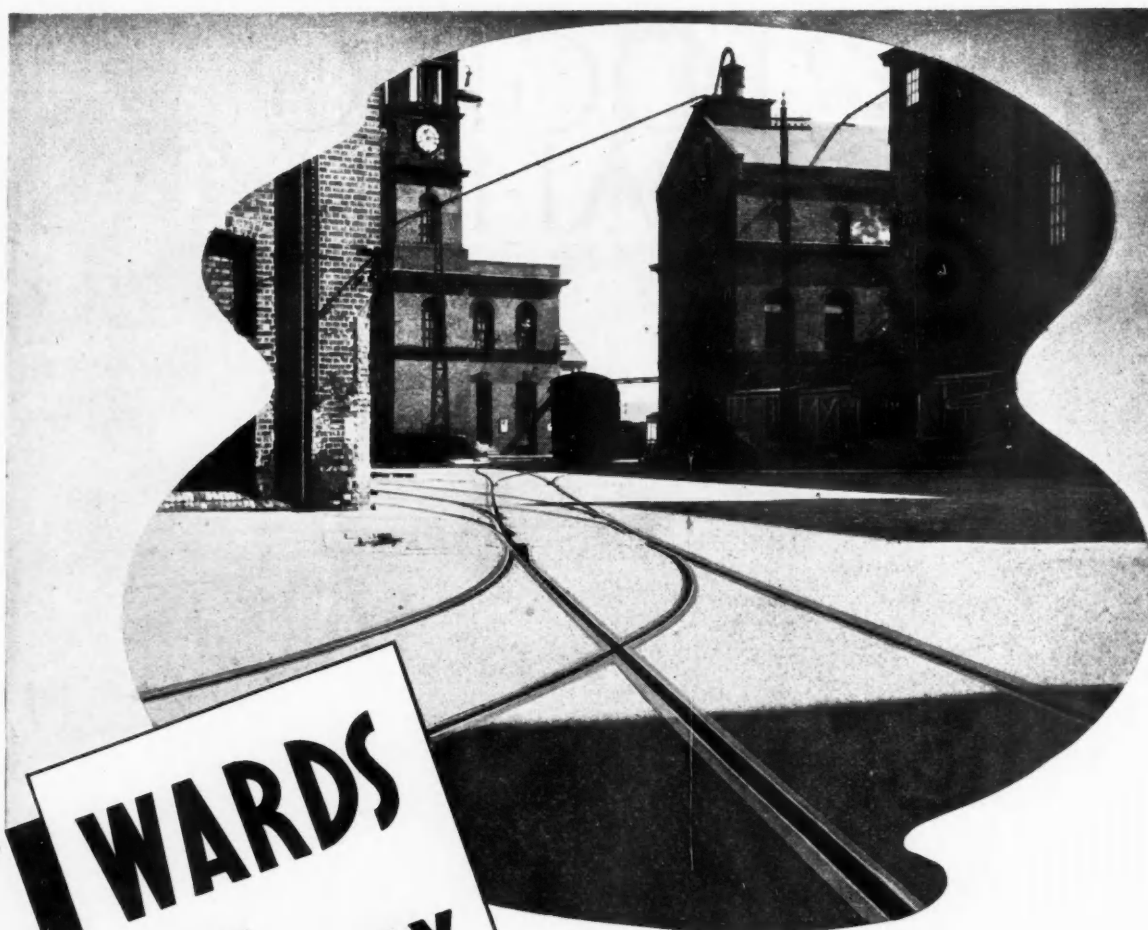
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Where an industrial organisation occupies a wide area, road and rail transport need to be completely interdependent for planned efficiency. Clean concrete roadways in which sidings are laid flush, permit road vehicles and rail services to cover large works and factories.

The illustration shows part of a typical WARD-BUILT installation of this kind which, when complete, will carry 10 miles of track into almost every corner of a 250 acre site.



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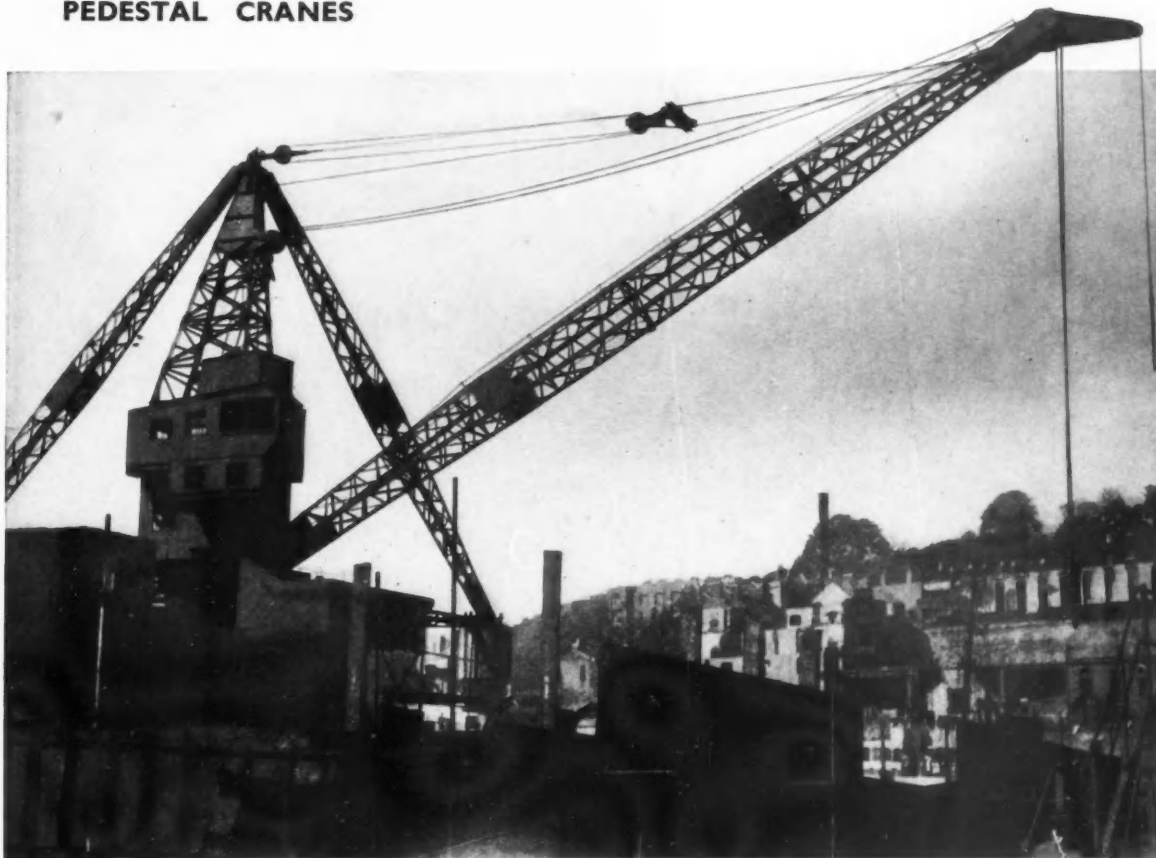
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All Butters Cranes are provided with every refinement of design and construction that will make for ease of operation, efficiency and low maintenance cost.

The illustration shows a 35-ton Butters electric derrick crane installed in the Bristol shipyard of Messrs. Chas. Hill.

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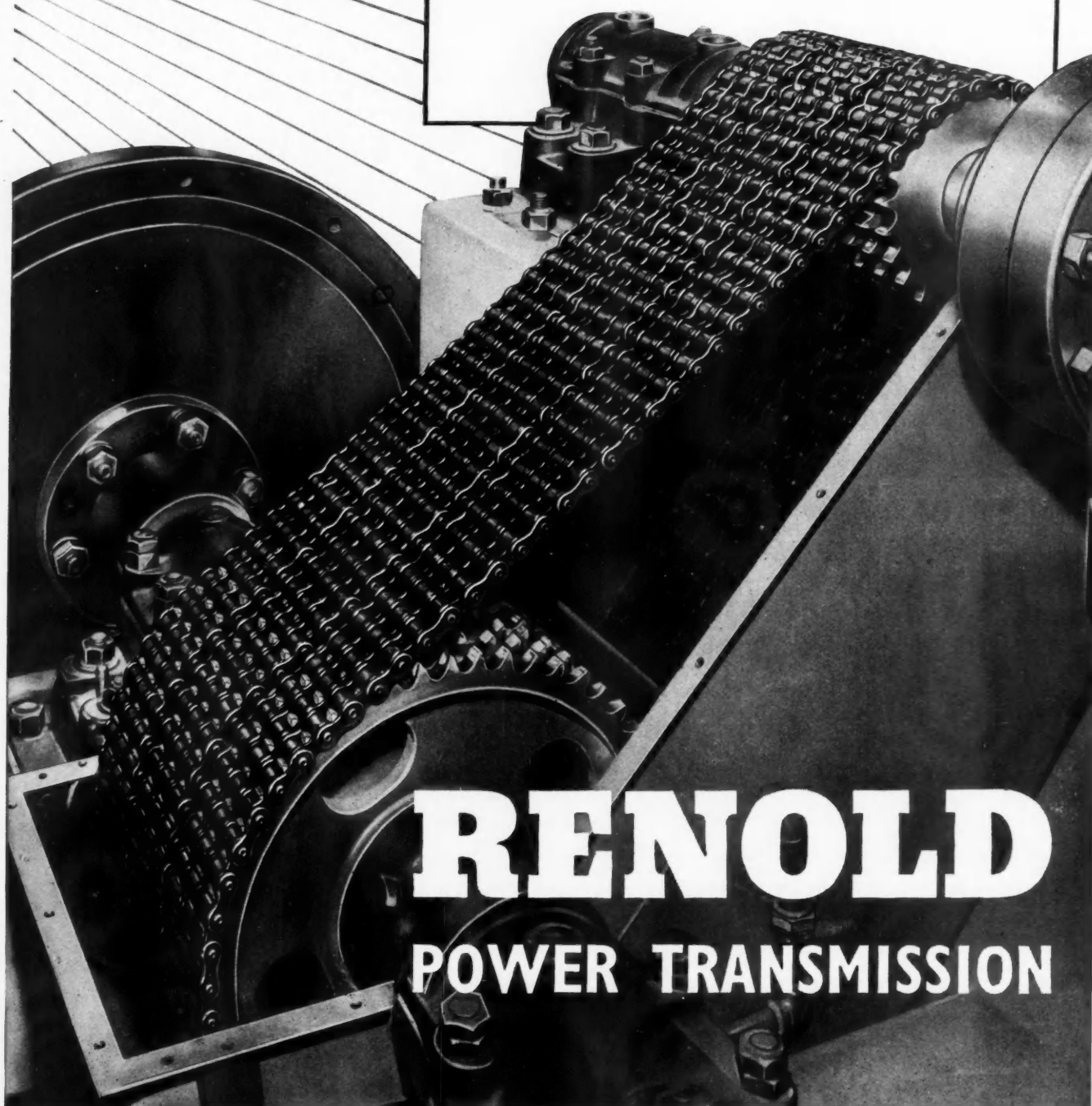
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BROS. & CO. LTD.

Renold speed increase drive from diesel engine to generator on a Canadian grain elevator - 300 h.p. by three strands of 1.25" pitch triplex roller chain.



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POWER TRANSMISSION



Transmission and Conveying Chains, Wheels and Accessories for all mechanical purposes

THE RENOLD AND COVENTRY CHAIN COMPANY LIMITED • MANCHESTER • ENGLAND

6 DUTCH DREDGE-BUILDING FIRMS *Join forces!*

The Dutch builders of dredges have joined forces to form a joint export organization. This corporation, in which six dredge-building firms have joined, is known as the Industrial Trading Corporation "Holland".

The purpose is to combine technical knowledge and building equipment, and thereby be able to offer clients the economies of large-scale production, the highest technical standards, and the quickest possible deliveries.

The principles of sectional shipbuilding have been introduced, so that production flows smoothly and scheduled production dates are closely kept to.

In addition, newly built laboratories equipped with the most modern apparatus are at the disposal of clients.

Enquiries for dredges of all types, cranes and other harbour equipment should be addressed to :

THE INDUSTRIAL TRADING CORPORATION "HOLLAND"

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The design of six dredge buckets, which is the trade mark of the new combination of six companies, is symbolic of their close co-operation.



A 170-ton all welded steel buoyant gate leaf for a 90 ft. entrance being stepped into position at Cardiff Docks. The leaf was towed to site from Barrow-in-Furness.

Dock Gates and Caissons of all sizes

When considering the replacement of existing dock gates, or the planning of new, it is well to bear in mind that Vickers-Armstrongs have been manufacturing this equipment for more than 70 years and can design and manufacture dock gates and caissons to meet any requirement.

Vickers-Armstrongs



Limited

VICKERS HOUSE • BROADWAY • LONDON S.W.1

SHIPBUILDERS • ENGINEERS • AIRCRAFT CONSTRUCTORS

BT-98



A small 40-ton welded buoyant leaf in position at Shoreham, Sussex. It is shown subsequent to stepping and the anchorage and adjustable anchor rods should be noted. The gates in the background were also recently installed by Vickers-Armstrongs.

TENDER.**TO CIVIL ENGINEERING CONTRACTORS.
TENDERS INVITED.****DUBLIN PORT & DOCKS BOARD—GRAVING DOCK AT DUBLIN.**

Tenders are invited from Civil Engineering Contractors for the construction of a Graving Dock at Alexandra Basin, Dublin.

The work will comprise a mass concrete Graving Dock 646 feet x 95 feet x 33 feet cope to floor; a reinforced concrete Jetty 443 feet x 39 feet; the supply and installation of equipment and the execution of all ancillary works in accordance with Drawings and contract documents prepared by Mr. Nicholas O'Dwyer, B.E., M.Inst.C.E.I., Consulting Engineer, 6, Burlington Road, Dublin.

Copies of drawings and contract documents may be obtained from the Consulting Engineer on payment of a deposit of 25 guineas (returnable to bona fide tenderers whose tenders are not subsequently withdrawn and who have returned the documents).

Sealed tenders on the form provided endorsed "Tender for Graving Dock" and accompanied by a Bill of Quantities priced and extended in ink should be delivered to the undersigned not later than the 27th day of June, 1950.

The Board will not be bound to accept the lowest or any Tender, nor will any Tender be paid for.

By Order,

R. F. LOWE,

Secretary.

Dublin Port & Docks Board,
19-21, Westmoreland Street,
Dublin.

12th December, 1949.

SITUATIONS VACANT.**ADMIRALTY (CIVIL ENGINEER-IN-CHIEF'S DEPARTMENT).**

Vacancies exist for Architectural and Civil Engineering Assistants in the Drawing Office at H.M. Dockyards and Establishments at Home and Abroad.

Applicants must be competent draughtsmen and designers with experience in some of the following types of Building and Civil Engineering Structures and Works:—

Structural Steelwork, Reinforced Concrete, Dock and Harbour Works, Accommodation, Residential, Office, Store and Factory Buildings, Oil Fuel Tanks and Pipe Lines, Airfield Construction and Maintenance, Rail, Road, Water, Sewage and Heating Services, etc.

The salary range for Architectural and Civil Engineering Assistants is £300—£525 p.a. (consolidated London Rate) subject to Provincial Differentiation of £20 at the minimum and £30 at the maximum. The minimum is tied to age 21 with an increase (or deduction) of £20 for each year over (or under) the age of 21 up to a maximum, on entry, of 7 increases. In addition, appropriate rates of Colonial Allowance are payable at Foreign Stations.

There are vacancies immediately existing at Pinner, Birmingham, Chatham, Leeds, Fareham and Portsmouth, in addition to possible vacancies occurring at Devonport, Belfast, Lissiemouth, Ceylon, South Africa and Singapore.

The Appointments are temporary.

Applications should be made, giving full particulars of experience, to The Civil Engineer-in-Chief, Admiralty, Chamberlain Way, Pinner, Middlesex.

PETERHEAD HARBOURS.

Experienced C.C.E. wanted for post of **Resident Engineer** now for about 2 years for Harbour Improvement Works to be carried out by Contracts at Peterhead. Salary up to £900 according to experience. Apply by letter to G. Gordon Nicol, M.I.C.E., 21, Bridge Street, Aberdeen, giving full particulars of experience, age, and names of referees.

FOR SALE.

TWO HOPPER-BARGES, non-propelled, dims.: 125-ft. x 22-ft. 6-in. x 8-ft. 6-in., deadweight 425 ton, built Holland 1950.

TWO HOPPER-BARGES, non-propelled, dims.: 110-ft. x 20-ft. x 7-ft. 3-in., deadweight 300 ton, built Holland 1950.

Scheepsb. Bur. C.M. v. Rees Wz., Slidrecht—C 378, Holland.

BACK NUMBERS REQUIRED

During the past few months, we have received a number of requests for back numbers, In particular the

YEARS 1940 — 1947

are urgently wanted.

Will anyone who has ANY issues for disposal kindly write to:—"The Dock & Harbour Authority,"

Subscription Dept.: 19, Harcourt Street, London, W.1

DREDGING PLANT FOR SALE

**TO PORT AND HARBOUR AUTHORITIES,
DREDGER OWNERS, DREDGING CONTRACTORS,
PUBLIC WORKS CONTRACTORS and OTHERS.**

Under Instructions from
THE CROWN AGENTS FOR THE COLONIES

On behalf of
THE GOVERNMENT OF NIGERIA

"OYO" Seagoing Steam Twin-Screw Pump Hopper Dredger; about 4,000 tons Hopper capacity. British built 1948. Dredging depth about 42 ft. Dredging capacity about 4,000 tons in 60 minutes. Can discharge into and from own hopper, overboard into barges and ashore through pipeline. Speed loaded about 10 knots; coal fired. Constructed to a very full specification. Dim.: about 345 ft. x 53.3 ft. x 24.7 ft.

Inspectable Nigeria

also

On behalf of
THE GOVERNMENT OF BERMUDA

"GENERAL ASSER" Non-propelled Pump Dredger. British built 1927. Dredging capacity about 130 tons per hour. Dredging depth about 25 ft. Oil fired boiler. Dim.: about 100 ft. x 33.1 ft. x 5.5 ft.

Inspectable Bermuda

AVAILABLE FOR SALE TO BUYERS OF ALL NATIONALITIES

(Not accountable for errors in description)

For further details and plans, apply to:—

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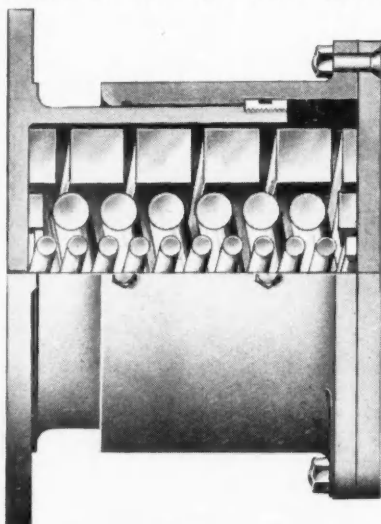
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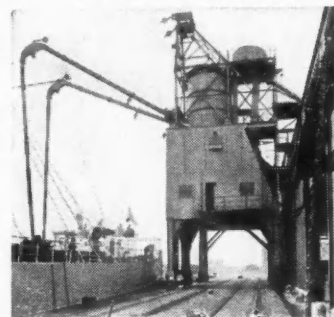
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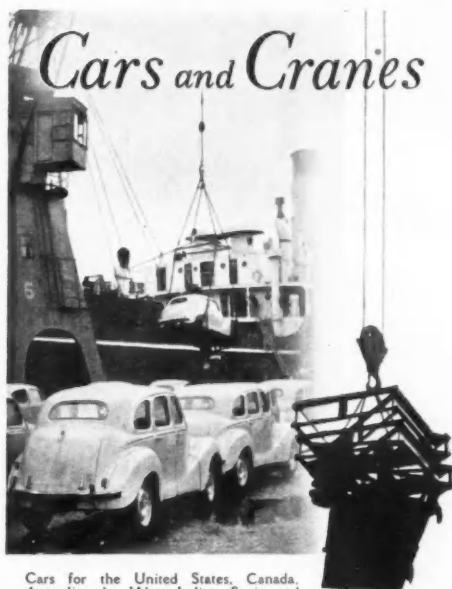
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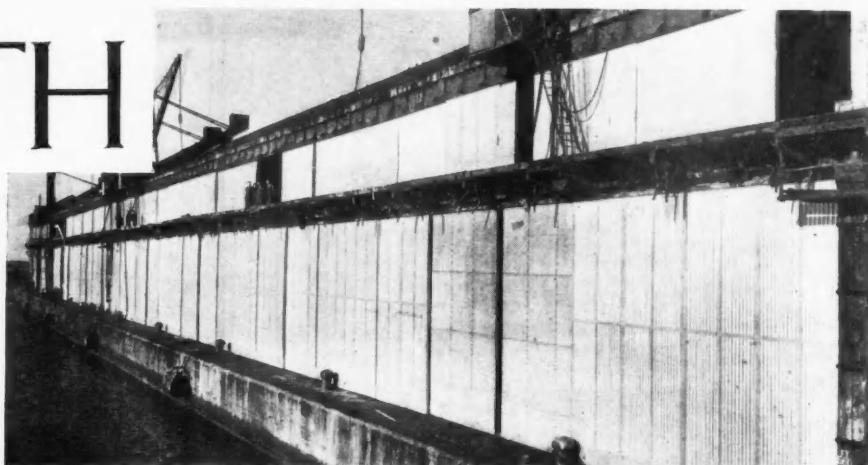
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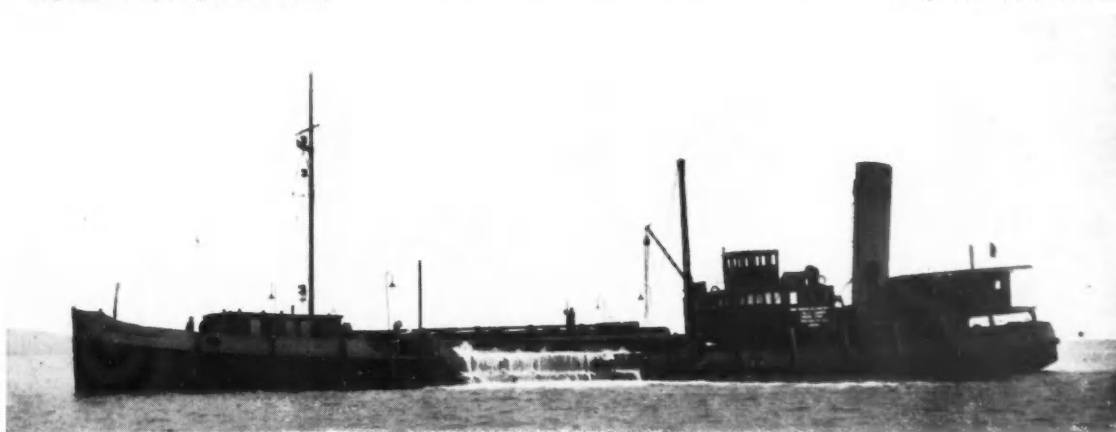
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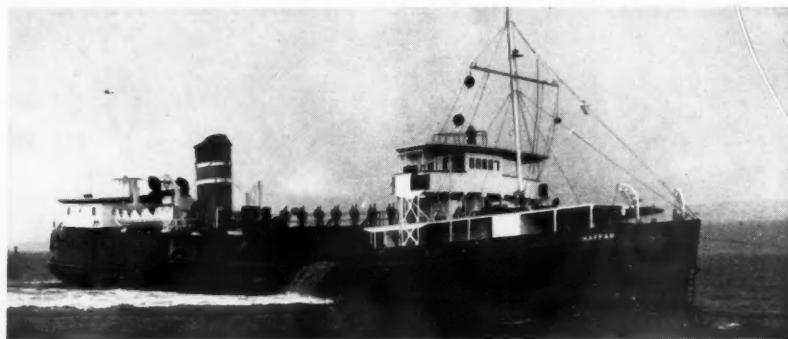
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